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## **STUDENT HANDOUTS**

Reading Comprehension
1. What Do We Classify?
2. Formal Classification
3. Warm-Blooded Animals vs. Cold-Blooded Animals
4. Vertebrates
5. Invertebrates
6. Animal Adaptations
7. A Case Study: The Koala and Its Adaptations
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## 



### ✓ 6 BONUS Activity Pages! Additional worksheets for your students

- Go to our website: www.classroomcompletepress.com/bonus
- Enter item CC4501 or Classification & Adaptation
- Enter pass code CC4501D for Activity Pages..



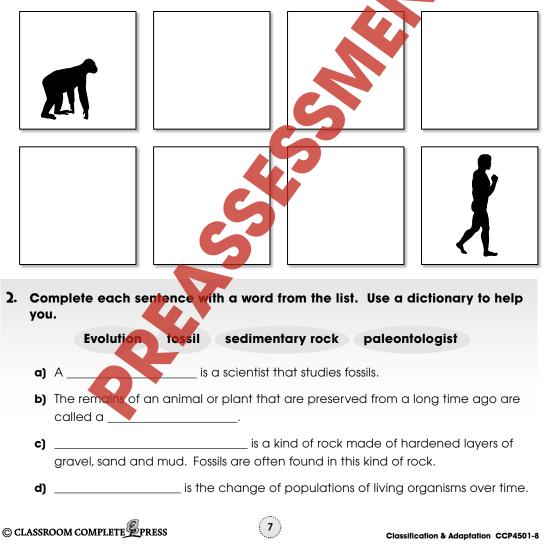




#### Classification & Adaptation CCP4501-8



**1. EVOLUTION** is the change of **POPULATIONS** of living organisms over time. Humans have evolved too. It is widely believed that humans evolved from the ape. In the boxes below, draw what you think the different stages of human evolution might look like. The first drawing (the ape) and the last drawing (the human) have been done for you.



## **Evolution and the Fossil Record**

———— Reading Passage

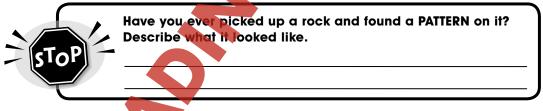
hen was the last time you saw a N dinosaur running across the street? Dinosaurs no longer exist. Today, other animals exist, doing the same things that dinosaurs used to do, searching for food. Birds fly in the skies, fish swim in the oceans, and bears walk on the land. Life on Earth has changed over time. This is called evolution. Evolution is the change of populations of living organisms over time.

NAME: \_\_\_\_



Scientists have been collecting information and evidence of evolution for over 300 years. You might wonder how scientists can

learn about life from so long ago when cameras and news clips didn't exist. Scientists gathered a lot of information by studying fossils. What is a fossil? A fossil is the remains of an animal or plant preserved from a long ine ago. A scientist that studies fossils is called a paleontologist - that's a big word! The remains in the picture above were found inside a rock.



The fossil record is the most accurate way to study past life on Earth. The fossil record clearly shows changes in life through layers of **sedimentary rock**. Sedimentary rock is made of layers of gravel, sand and mud (sediment) that have collected over time. Bits and pieces of once living things are trapped in between these layers. Over time, the layers of sediment are flattened down and eventually harden and form sedimentary rock. The buried plant and animal remains become fossils within the sedimentary layers.

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After You Read 🌪 NAME: \_ **Evolution and the Fossil Record** 3. Use a dictionary to look up the definition of FOSSIL and EVOLUTION. Write down the dictionary's definition, and then write your own definition of each word. a) fossil (dictionary):\_\_\_\_ b) fossil (own definition): \_\_\_\_ c) evolution (dictionary): d) evolution (own definition):

D living organisms over a period of 1 year

#### c) An effective way to study evolution is to...

- A read news reports that discuss important events.
   B look at pictures drawn by people who lived on Earth hundreds of years ago.
- O C study animal or plant remains found in rock, called fossils.
- **D** study rocks and minerals.

#### d) The fossil record is the most accurate way to study past life on Earth. It shows...

- A changes in life through layers of sedimentary rock.
- **B** all the fossils that scientists have found in the last 100 years.
- C plants and animals that live so long that they form into rock.
   D animals only and what their ancestors looked like.

. .

#### 2. Circle) the word True if the statement's true. Circle) the word False if it's false.

. . . . . . .

- a) Evolution is the change of populations of living things over time. True
- fe on Earth has not changed. It is the same as it was thousands of years ago. b) Tru False
- c) Paleontologists are scientists that study fossils to find out more about evolution. False True
- d) Plant and animal remains buried in sedimentary rock become fossils within the sedimentary layers.

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- True False
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#### **Extension and Application**

#### **4.** Uncover the Fossil!

To the right is a picture of a fossil. This fossil shows the remains of an animal that has been preserved from a long time ago. Pretend you are a scientist. What can you tell from looking the picture? Use your imagination to come up ation to come up with a story about this animal. While writing your story, think about the following questions: What was life like for this animal? What did it eat? Where did it live? How did it survi

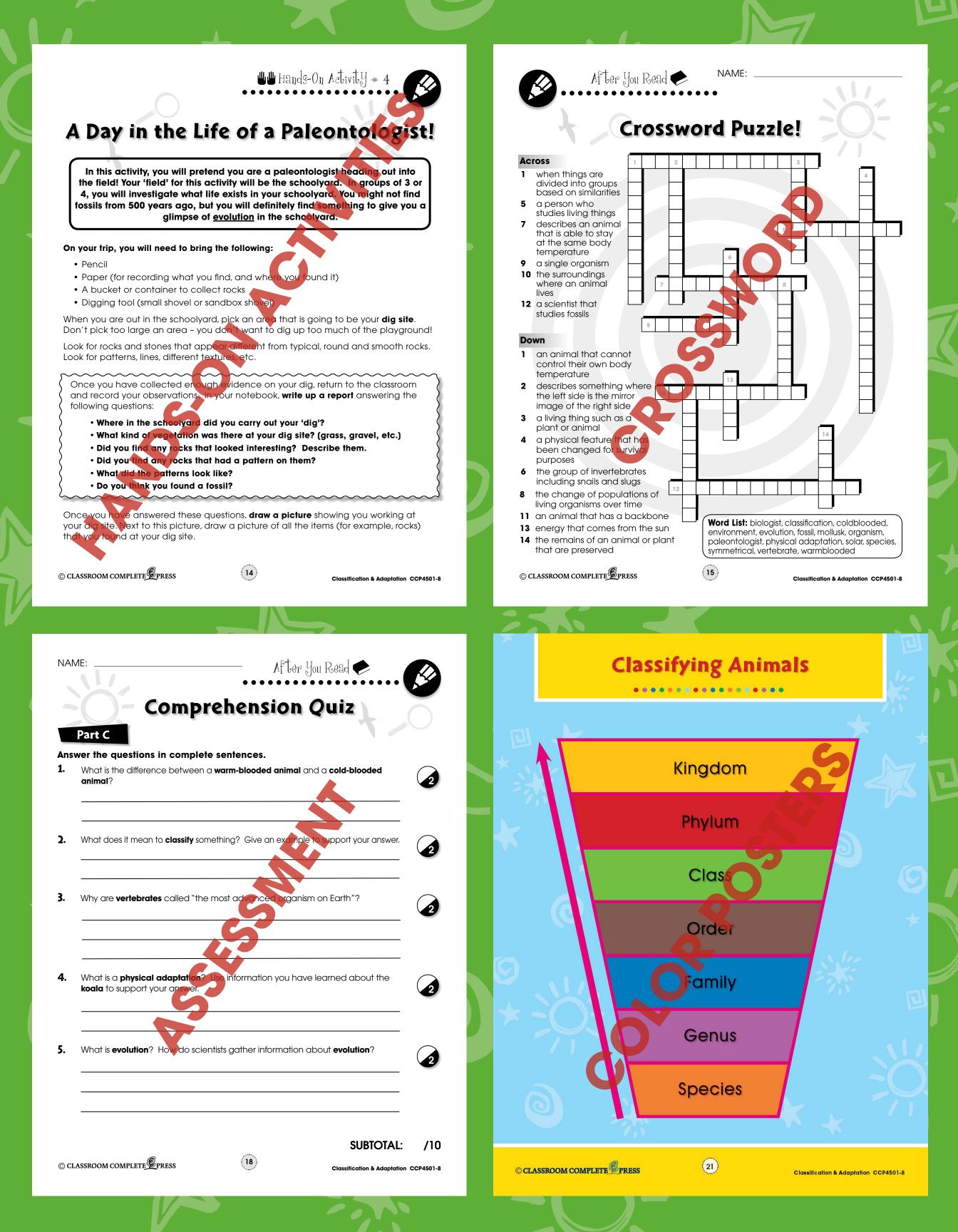


You have been hired by the State research lab to be their new paleontologist! You have an important job to do! A paleontologist is a scientist that studies fossils and evolution. Many people are relying on you to uncover important information about life on Earth and how it has changed over time. Use research tools (internet, encyclopedia, books) to find out more about what a paleontologist does. Once you have collected enough information, write your own job description. After you have written it, share it with a partner. He or she should be able to get a good impression of what your job is all about!

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Hands-On Activity #3

## **The Lake Habitat Thermometer**

For this activity, you will need:

A thermometer
The picture of the "Lake Habitat"

Information resources (like the internet or an encyclopedia)

Look at the picture of the "Lake Habitat". Then read the following description of it:

The current temperature of the air is 47 degrees F. The highest temperature of the water is 37 degrees F. The temperature of the soil is 49 degrees F. The date is January 9. The time is late afternoon. The sky is very cloudy.

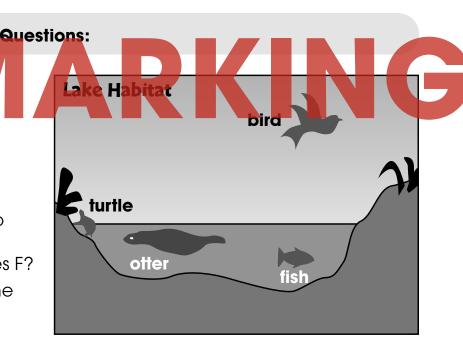
While you are reading the above description, look at your **thermometer**. Can you find the above temperatures on your thermometer? Work with a partner if you are having trouble.

In your notebook, copy down the following questions. Answer them using what you have learned about warm-blooded and cold-blooded animals, and your information resources.

- 1. Approximately what is the k temperature of the fish?
  - Approximately what is the body temperature of the otter?
  - 3. Approximately what is the body temperature of the bird?
  - 4. Is there anything the fish can do to increase its body temperature to much more than about 37 degrees F?
  - 5. How well is the otter insulated in the cold winter?
  - 6. How well is the fish insulated?
  - 7. If an animal is poorly insulated, what is the disadvantage in cold weather?







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Answers will vary

Answers will vary

5.

Answers will vary

10

temperature as its surroundings)

2. 100° F (temperature of most mammals

F (temperature lost birds when

when active)

4. No - can only swim to the surface where

there is more sunlight on a sunny day

very little body fat

temperature of its

surroundings (water or

7. Body temperature

drops as the

air) drops

ctive)

1. 37° F (same





# 5. Fairly well - it has fur and layers of fat to insulate it 6. Not well - it has scales rather than fur and user with the back fat.

